



VOLUNTARY PURCHASING GROUPS, INC.

Safety Data Sheet Hi-Yield Aluminum Sulfate

SECTION 1: Identification

GHS Product identifier

Product name Hi-Yield Aluminum Sulfate

Product number 34175; 34176;

Other means of identification

Aluminum Trisulfate, Dialuminum Trisulfate, Alum, Alum Salt Water

Recommended use of the chemical and restrictions on use

Fertilizer

Supplier's details

Name Voluntary Purchasing Groups, Inc.
Address 230 FM 87
Bonham TX 75418
USA

Telephone 855-270-4776

Emergency phone number

In the event of a medical or chemical emergency contact ChemTel, Inc.
North American 1-800-255-3924 or worldwide Intl. + 01-813-248-0585

SECTION 2: Hazard identification

Classification of the substance or mixture

- Skin corrosion/irritation, Cat. 2
- Eye damage/irritation, Cat. 2

GHS label elements, including precautionary statements

Pictograms



Signal word

Warning

Hazard statement(s)

H315
H319

Causes skin irritation
Causes serious eye irritation

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Precautionary statement(s)

P262	Do not get in eyes, on skin, or on clothing.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
P102	Keep out of reach of children.
P103	Read label before use.

Other hazards which do not result in classification

Avoid creating dust when handling, using, or storing. Avoid breathing dust.

SECTION 3: Composition/information on ingredients

Substances

Hazardous components

Component	Concentration
Water (CAS no.: 7732-18-5)	1 %
Aluminum sulfate (CAS no.: 10043-01-3)	99 %

SECTION 4: First-aid measures

Description of necessary first-aid measures

General advice	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
If inhaled	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
In case of skin contact	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention.
In case of eye contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
If swallowed	If swallowed, DO NOT induce vomiting. Get medical attention immediately. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person.

Most important symptoms/effects, acute and delayed

Not expected to present a significant hazard under anticipated conditions of normal use.

Indication of immediate medical attention and special treatment needed, if necessary

No additional information available.

SECTION 5: Fire-fighting measures

Suitable extinguishing media

Foam. Dry powder. Carbon dioxide. Water spray. Sand. Do not use a heavy water stream.

Specific hazards arising from the chemical

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Sulfur oxides, aluminum oxide.

Special protective actions for fire-fighters

The following protective equipment for fire fighters is recommended when this material is present in the area of a fire: chemical goggles, body-covering protective clothing, chemical resistant gloves, rubber boots, SCBA and insulated protective clothing.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear basic PPE and approved dust mask. See section 8.

Environmental precautions

Avoid discharge to potable water net.

Methods and materials for containment and cleaning up

Small Spill:

Cleanup Shovel into clean, dry, and labeled containers and cover. Flush area with water. Do not get water inside containers or on spilled material.

Large Spill:

Cleanup Prevent solids from mixing with water or entering sewers or waterways. Shovel into clean, dry, labeled containers and cover. If liquid is present, dike with inert material (sand, earth, etc.). Consider in situ neutralization and disposal. Ensure adequate decontamination of tools and equipment following clean up.

Reportable quantity:

If a spill goes off site, notification of state and local authorities is recommended.

Reference to other sections

See section 8.

SECTION 7: Handling and storage

Precautions for safe handling

Dry Alum is an irritating solid. Avoid generating dusts. Do not breathe dusts. Do not ingest. Do not get in eyes, on skin or on clothing. Use proper tools when opening containers. Keep containers closed when not in use. Empty containers may contain hazardous residues. When there is a large scale use, do not use in areas equipped with sprinkler systems. Post "DO NOT USE WATER" signs. Good housekeeping is important to prevent accumulations of dust. Dry sweeping is not recommended.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Keep container in a cool, dry, well-ventilated area. Store away from incompatible materials such as strong bases. Post warning signs.

Incompatible products:

Alkalis.

SECTION 8: Exposure controls/personal protection

Appropriate engineering controls

Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. If user operations generate dust, fumes or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit. The most effective measures are the total enclosure of processes and the mechanization of handling procedures to prevent all personal contact. Use a corrosion resistant ventilation system separate from other exhaust ventilation systems.

Individual protection measures, such as personal protective equipment (PPE)

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Eye/face protection

Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH.

Skin protection

Wear protective gloves.

Body protection

Wear body-covering protective clothing, gloves and appropriate industrial footwear.

Respiratory protection

Use an approved dust mask.

Thermal hazards

No data available.

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties

Appearance (physical state, color, etc.)	Solid granules
Odor	Insignificant
Odor threshold	No data available.
pH	>2.9
Melting point/freezing point	187.7°F
Initial boiling point and boiling range	No data available.
Flash point	No data available.
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Upper/lower flammability or explosive limits	No data available.
Vapor pressure	No data available.
Vapor density	No data available.
Relative density	1.69 g/cm ³ at 25°C (77°F)
Solubility(ies)	Soluble in Water
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity	No data available.

Additional properties

Physical state	Solid
Color	
Explosive properties	No data available.
Oxidizing properties	No data available.

Further safety characteristics (supplemental)

No data available.

SECTION 10: Stability and reactivity

Reactivity

No information available.

Chemical stability

This material is stable under all conditions of use and storage.

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Possibility of hazardous reactions

Not established.

Conditions to avoid

Incompatible with alkalis.

Incompatible materials

Avoid contact with aluminum, tin, lead, zinc, iron and alloys with these metals.

Hazardous decomposition products

Sulfur dioxide, sulfur trioxide.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Oral DL50, rat: 6,207 mg/kg

Dermal DL50, rabbit: 1,930 mg/kg

Intraperitoneal DL50, mouse: 2,70 mg/kg

Inhalation CL50, rat: 2 - 4 mg Al/

Skin corrosion/irritation

No information available.

Serious eye damage/irritation

May cause eye irritation.

Respiratory or skin sensitization

No information available.

Germ cell mutagenicity

No data available.

Carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC, NTP, or OSHA.

Reproductive toxicity

No data available.

Specific target organ toxicity (STOT) - single exposure

No data available.

Specific target organ toxicity (STOT) - repeated exposure

No data available.

Aspiration hazard

No data available.

Additional information

Direct contact may cause moderate irritation in digestive apparatus.

SECTION 12: Ecological information

Toxicity

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Gambusia affinis, CL50 48 hr: 69 mg/L
Salvelinus fontinalis, CL50 96 hr: 3.0 mg/L
Daphnia magna, CE50 48 hr: 136 mg/L

Persistence and degradability

No data available.

Bioaccumulative potential

No data available.

Mobility in soil

No data available.

Results of PBT and vPvB assessment

No data available.

Other adverse effects

No data available.

SECTION 13: Disposal considerations

Disposal methods

Product disposal

Dilute with plenty water and neutralize with lime. Dispose in accordance with federal, state and local regulations and permits.

Waste treatment

Dispose in accordance with federal, state and local regulations and permits.

Other disposal recommendations

This material is not considered as hazardous waste without dilution.

SECTION 14: Transport information

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

Massachusetts Right To Know Components

Chemical name: Aluminum sulfate

CAS number: 10043-01-3

New Jersey Right To Know Components

Common name: Aluminum sulfate

CAS number: 10043-01-3

Pennsylvania Right To Know Components

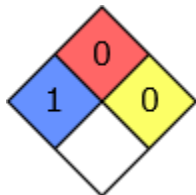
Chemical name: Sulfuric acid, aluminum salt (3:2)

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CAS number: 10043-01-3

NFPA Rating



SECTION 16: Other information

No data available.

Further information/disclaimer

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